

Improved Grooving Tool for Tubing



BENEFITS

- Tool can make a groove anywhere along the tubing for a more secure connection
- Allows for easy replacement of the tube grooving blades
- Improves the pressure rating of tubing with the use of a compression fitting

APPLICATIONS

- Industrial equipment
- Construction
- Waste management
- Oil and gas
- Chemicals
- Electric Utility

U.S. PATENT PENDING ON SD#

- 11011

Summary

Sandia has developed an improved grooving tool for Teflon® or other plastic tubing. Grooving tools are used at the end of a tubing section to provide a better seal with compression fittings for connections to equipment. When used with a compression fitting, grooves can significantly increase the pressure rating of the tube to the fitting seal. Current tools can only be used to make grooves at the ends of tubing, while this new technology can make a groove anywhere along the tubing.

This new tool also allows for easy replacement of the tube grooving blades, an advancement from current grooving tools which do not allow for blade replacement once they become broken or have been exposed to corrosive chemicals.



Licensing & Partnering Status:

Various license and partnering options are available. Please contact the Intellectual Property department to discuss.

Technology Readiness Level:

Sandia estimates this technology at a TRL 6. A market deliverable has been demonstrated in relevant environments and is in final development.